

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L4	1	("4024814").PN.	USPAT; USOCR	OR	OFF	2006/12/26 11:14
S1	49	(US-20050179763-\$ or US-20050035538-\$).did. or (US-5431384-\$ or US-5561604-\$ or US-5588365-\$ or US-6475713-\$ or US-4627346-\$ or US-6065402-\$ or US-6425666-\$ or US-6971647-\$ or US-5009321-\$ or US-5719602-\$ or US-5992975-\$ or US-5975515-\$ or US-6112653-\$ or US-6346353-\$ or US-6352805-\$ or US-6376160-\$ or US-6395459-\$ or US-5265536-\$ or US-5362043-\$ or US-6042109-\$ or US-6190070-\$ or US-5009532-\$ or US-5192141-\$ or US-5673909-\$ or US-5767874-\$ or US-5772343-\$). did. or (US-5836706-\$ or US-5869939-\$ or US-5879090-\$ or US-6018640-\$ or US-6029020-\$ or US-6054791-\$ or US-6059160-\$ or US-6074042-\$ or US-6079888-\$ or US-6089766-\$ or US-6150777-\$ or US-6167231-\$ or US-6203147-\$ or US-6250737-\$ or US-6280106-\$ or US-6290410-\$ or US-6332068-\$ or US-6360011-\$ or US-6412909-\$ or US-6491462-\$ or US-6624902-\$). did.	US-PGPUB; USPAT	OR	OFF	2006/11/06 15:30
S2	6	S1 suction\$	USPAT	AND	OFF	2006/11/06 15:30
S3	21	("20030016970"   "2729136"   "3902715"   "4266762"   "4335971"   "4511242"   "4693463"   "4930766"   "5078384"   "5167409"   "5278624"   "5394222"   "5540370"   "5678159"   "5791644"   "5794176"   "6324377"   "6454256"   "6485010"   "6712356").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/06 15:31
S4	0	"10782656".pran.	USPAT	OR	OFF	2006/11/07 09:05
S5	0	"10782656".ap.	USPAT	OR	OFF	2006/11/07 09:05
S6	0	"10782656".ad.	USPAT	OR	OFF	2006/11/07 09:06
S7	0	"10782656".apn.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/07 09:07
S8	0	"10782656".ap.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/07 09:07

## EAST Search History

S9	3355	mccarthy.in.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/07 09:07
S10	265	mccarthy.in. robert.in.	US-PGPUB; USPAT; USOCR	AND	OFF	2006/11/07 09:08
S11	24	mccarthy.in. robert.in. media handling	US-PGPUB; USPAT; USOCR	AND	OFF	2006/11/07 09:08
S12	51	suction S9	USPAT	AND	OFF	2006/11/07 09:17
S13	8	("271"/\$.ccls. OR "101"/\$.ccls) S9	USPAT	AND	OFF	2006/11/07 09:18
S14	10	US-US6438352-\$.DID. OR US-US4437657-\$.DID. OR US-US4848764-\$.DID. OR US-US3991997-\$.DID. OR US-US5671672-\$.DID. OR US-US5016865-\$.DID. OR US-US5431384-\$.DID. OR US-0202002-\$.DID. OR US-0201984-\$.DID. OR US-JU1181989-\$.DID. OR US-0161976-\$.DID. OR US-0301997-\$.DID. OR US-0211991-\$.DID. OR US-JU1111995-\$.DID. OR US-PT01449-\$.DID.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/07 09:41
S15	7	((("6,438,352") or ("4,437,657") or ("4,848,764") or ("3,991,997") or ("5,671,672") or ("5,016,865") or ("5,431,384")).PN.	USPAT; USOCR	OR	OFF	2006/11/07 10:05
S16	1	("5393151").PN.	USPAT; USOCR	OR	OFF	2006/11/07 10:05
S17	37	("3734015"   "3741643"   "4165689"   "4186662"   "4202268"   "4204471"   "4204472"   "4375326"   "4378734"   "4428667"   "4431303"   "4568169"   "4607940"   "4621576"   "4639126"   "4684238"   "4721041"   "4723489"   "4806079"   "4814822"   "4821643"   "4884794"   "4949949"   "4967660"   "4974027"   "5003355"   "5020788"   "5110159"   "5170211"   "5439029"   "5552875"   "5710964"   "5772343").PN. OR ("6438352"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/07 10:43

## EAST Search History

S18	14	("0270969"   "0570928"   "3416445"   "5111743"   "5203706"   "5347925"   "5375517"   "5398602").PN. OR ("5671672").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/07 10:43
S19	13	("3025052"   "3127167"   "3806114"   "4345752"   "4568073"   "4666145"   "4739982"   "4802662"   "5232213").PN. OR ("5431384").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/07 10:44
S20	13	("3025052"   "3127167"   "3806114"   "4345752"   "4568073"   "4666145"   "4739982"   "4802662"   "5232213").PN. OR ("5431384").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/07 10:44
S21	5	("3893663"   "4206465"   "4508331"   "4516763").PN. OR ("5016865").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/07 10:44
S22	18	("3797822"   "4418906"   "4589649").PN. OR ("4848764").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/07 10:44
S23	12	("3181860"   "3718328"   "3893664"   "3934868"   "4178848").PN. OR ("4437657").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/07 10:44
S24	18	("1575892"   "2085592"   "2840415"   "2937868"   "2986392"   "3220694").PN. OR ("3991997").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/07 10:44
S25	41	("3673960"   "3915281"   "3995730"   "4095686"   "4537521"   "4549826"   "4560292"   "4642661"   "4728963"   "4843338"   "4853255"   "5065169"   "5280897"   "5291224").PN. OR ("5393151").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/07 10:44
S26	0	L14-L22 suction	USPAT	AND	OFF	2006/11/07 10:45
S27	111	S17 S18 S19 S20 S21 S22 S23 S24 S25 AND suction	USPAT	OR	OFF	2006/11/07 10:45
S28	104	S17 S18 S19 S20 S21 S22 S23 S24 S25 AND (suction AND cup)	USPAT	OR	OFF	2006/11/07 10:46
S29	104	S17 S18 S19 S20 S21 S22 S23 S24 S25 AND (suction AND cup) AND ("271"/\$.ccls. OR "101"/\$.ccls. OR "298"/\$.ccls.)	USPAT	OR	OFF	2006/11/07 14:44
S30	9	("3884146"   "4378734").PN. OR ("4721041").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/07 12:56

## EAST Search History

S31	9	("3181860").URPN.	USPAT	OR	OFF	2006/11/07 14:36
S32	9	("3181860").URPN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/07 14:36
S33	76	four WITH (suction AND cup) AND ("271"/\$.ccls. OR "101"/\$.ccls. OR "298"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/11/07 14:56
S34	21	four WITH (suction AND cup) AND ("271"/\$.ccls. OR "101"/\$.ccls. OR "298"/\$.ccls.) AND offset	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/11/07 14:56
S35	0	offset ".3" mm	USPAT	WITH	OFF	2006/11/07 15:15
S36	0	(distance OR offset OR difference) ".3" mm	USPAT	WITH	OFF	2006/11/07 15:15
S37	0	(distance OR offset OR difference) ".3" mm	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	OFF	2006/11/07 15:15
S38	0	".3" mm	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	OFF	2006/11/07 15:16
S39	0	".3" mm	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/07 15:16

## EAST Search History

S40	0	".3"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/07 15:16
S41	684973	"0.3"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/07 15:16
S42	5124	(offset OR distance OR difference) "0.3" mm	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	OFF	2006/11/07 15:17
S43	0	(offset OR distance OR difference) "0.3" mm "271"/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	OFF	2006/11/07 15:17
S44	23	(offset OR distance OR difference) "0.3" mm AND "271"/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	OFF	2006/11/07 15:17
S45	13	("3025052"   "3127167"   "3806114"   "4345752"   "4568073"   "4666145"   "4739982"   "4802662"   "5232213").PN. OR ("5431384").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/08 08:13
S46	30	("1248946"   "2529730"   "2595546"   "2631037"   "3041067"   "3089697"   "3127168"   "3240488"   "3276425"   "3586316").PN. OR ("3806114"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/08 08:17

## EAST Search History

S47	488	271/276.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/08 08:32
S48	384	271/276.ccls. AND (suction\$ vacuum pneumatic (negativ\$4 ADJ pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/08 08:36
S49	12	271/276.ccls. AND (suction\$ vacuum pneumatic (negativ\$4 ADJ pressure)) AND perfector	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/08 09:09
S50	131	271/276.ccls. AND (suction\$ vacuum pneumatic (negativ\$4 ADJ pressure)) AND plane	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/08 09:09
S51	4	271/276.ccls. AND (suction\$ vacuum pneumatic (negativ\$4 ADJ pressure)) AND (plane ADJ6 (cup OR grip\$5 OR mouth))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 09:16
S52	14	271/194,196,314,186.ccls. AND (suction\$ vacuum pneumatic (negativ\$4 ADJ pressure)) AND (plane ADJ6 (cup OR grip\$5 OR mouth))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 09:40

## EAST Search History

S53	47	("1929361"   "2108702"   "3280995"   "3314676"   "3523687"   "3622151"   "3838771"   "3913906"   "3937457"   "4002332"   "4054285"   "4078789"   "4200278"   "4226324"   "4346880"   "4451191"   "4512255"   "4526361"   "4566686"   "4568169"   "4569620"   "4669715"   "4699367"   "4720227"   "4759537"   "4763890"   "4799613"   "4968021"   "5002267"   "5041879"   "5106075").PN. OR ("5535997"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/08 09:22
S54	20	S53 AND (cup grip\$5 mouth)	USPAT	OR	OFF	2006/11/08 09:23
S55	16	271/276,194,196,314,186.ccls. AND (suction\$ vacuum pneumatic (negativ\$4 ADJ pressure)) AND (axis ADJ6 (cup OR grip\$5 OR mouth))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 10:13
S56	118	271/276,194,196,314,186.ccls. AND (suction\$ vacuum pneumatic (negativ\$4 ADJ pressure)) AND ((different offset distance) WITH (plane axis planes axes))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 10:15
S57	52	271/276,194,196,314,186.ccls. AND (suction\$ vacuum pneumatic (negativ\$4 ADJ pressure)) AND ((different offset distance) WITH (plane axis planes axes)) WITH (cup surface grip\$5 mouth vacuum)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 10:54
S58	47	("3096088"   "3430946").PN. OR ("4024814").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/08 10:28
S59	3	271/276,194,196,314,186.ccls. AND (radial WITH cup)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 10:56

## EAST Search History

S60	3	("298"/\$.ccls. "101"/\$.ccls 271/276, 194,196,314,186.ccls.) AND (radial WITH cup)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 10:58
S61	8	("298"/\$.ccls. "101"/\$.ccls 271/276, 194,196,314,186.ccls.) AND (radial\$6 WITH cup)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 11:02
S62	69	("298"/\$.ccls. "101"/\$.ccls 271/276, 194,196,314,186.ccls.) AND (radial\$6 WITH move)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 11:03
S63	17	"2452096"	USPAT	OR	OFF	2006/11/08 11:22
S64	30	"2452096"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/26 11:14
S65	5	("2452096").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/08 11:26
S66	2	("0054703").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/08 11:26
S67	0	("054,703").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/08 11:26



## EAST Search History

S68	3350	b65h\$ cup	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/11/08 11:33
S69	1528	b65h\$ "suction cup"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/11/08 11:33
S70	408	b65h\$ "suction cup" plane	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/11/08 11:34
S71	92	b65h\$ "suction cup" WITH plane	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/11/08 11:36
S72	102	b65h\$ (cup WITH plane) AND vacuum	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/11/08 11:36
S73	13	("2936171"   "3826485"   "3830121"   "3966197"   "3980293").PN. OR ("4703925").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/08 12:59
S74	3	("2262109").PN. OR ("3582062").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/08 13:42
S75	50	perfector AND (tightening tensioning)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/08 13:44

## EAST Search History

S76	3	perfector\$3 AND (tightening tensioning) AND cup\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/08 13:45
S77	9659	((tightening tensioning) WITH (media sheet paper))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/08 13:46
S78	2075	((tightening tensioning) ADJ3 (media sheet paper))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/08 14:59
S79	305	((tightening tensioning) ADJ3 (media sheet paper)) AND vacuum	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 13:47
S80	25	((tightening tensioning) ADJ3 (media sheet paper)) AND vacuum AND ("271"/\$.ccls "101"/\$.ccls. "298"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 14:03
S81	1	("3839959").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/08 14:01
S82	1095	distal AND ("271"/\$.ccls "101"/\$.ccls. "298"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 14:14

## EAST Search History

S83	0	distal vacuum AND ("271"/\$.ccls "101"/\$.ccls. "298"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/11/08 14:12
S84	0	distal surface AND ("271"/\$.ccls "101"/\$.ccls. "298"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/11/08 14:13
S85	0	distal AND plane ("271"/\$.ccls "101"/\$.ccls. "298"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/11/08 14:13
S86	1043	distal "271"/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/08 14:15
S87	528	distal surfaces "271"/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/08 14:15
S88	386	distal surfaces plane "271"/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/11/08 14:15
S89	36	distal surfaces planes "271"/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/08 14:21

## EAST Search History

S90	0	distal ADJ3 (surfaces OR planes)"271"/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/08 14:16
S91	6	distal ADJ3 (surfaces OR planes)"271"/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/08 14:16
S92	217	271/194.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/08 14:21
S93	282	271/196.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/08 14:21
S94	542	271/314.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/08 14:21
S95	1	271/276,194,196,314,186.ccls. cups planes offset four	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/08 15:00
S96	22	271/276,194,196,314,186.ccls. cups four	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/08 15:01

## EAST Search History

S97	5	271/276,194,196,314,186.ccls. cups WITH four	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/08 15:03
S98	3	271/276,194,196,314,186.ccls. cups WITH three	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/11/08 15:04
S99	101	("271"/\$.ccls. "101"/\$.ccls. "298"/\$.ccls.) AND (cups WITH four)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/08 15:05
S10 0	12	("2915308"   "2936681"   "3302946"   "3575409"   "3836139"   "3937458"   "4194442"   "4350466"   "4735600").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/08 15:35
S10 1	12	("2915308"   "2936681"   "3302946"   "3575409"   "3836139"   "3937458"   "4194442"   "4350466"   "4735600").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/08 15:35
S10 2	1	"271"/\$.ccls. AND (liquid electrophotography print engine)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	OFF	2006/11/09 09:09
S10 3	4	"271"/\$.ccls. AND (liquid electrophotography print\$6)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	OFF	2006/11/09 09:09
S10 4	0	("2004/0113349").URPN.	USPAT	OR	OFF	2006/11/09 09:15
S10 5	82	"271"/\$.ccls. AND (cups (offset OR distance))	USPAT	WITH	OFF	2006/11/09 09:36
S10 6	2	"271"/\$.ccls. AND (cups (offset OR distance) mm)	USPAT	WITH	OFF	2006/11/09 11:24

## EAST Search History

S10 7	13	("1715360"   "2225006"   "3430949"   "3702698"   "3764133").PN. OR ("4380331").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/09 09:42
S10 8	17	(cups (offset OR distance) mm)	USPAT	WITH	OFF	2006/11/09 09:47
S10 9	27	(cups (offset OR distance) mm)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	OFF	2006/11/09 09:58
S11 0	6	(cups (difference) mm)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	OFF	2006/11/09 09:58
S11 1	652	271/94-96.ccls.	USPAT	WITH	OFF	2006/11/09 11:24
S11 2	749	271/94-96.ccls. AND (suction vacuum pneumatic (negative ADJ3 pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/09 11:26
S11 3	373	271/94.ccls. AND (suction vacuum pneumatic (negative ADJ3 pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/09 11:27
S11 4	78	271/94.ccls. AND (((suction vacuum pneumatic) WITH cup) (negative ADJ3 pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/09 11:28
S11 5	22	271/94.ccls. AND ((suction vacuum pneumatic (negative ADJ3 pressure)) WITH cup)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/09 11:48

## EAST Search History

S11 6	37	("4169676"   "4184672"   "4327906"   "4374212"   "4381860"   "4451028"   "4589647"   "4596385"   "4627605"   "4635921"   "4678176"   "4750729"   "4887805"   "5090676"   "5092578"   "5150892"   "5181706"   "5181709"   "5181710").PN. OR ("5344133").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/09 11:38
S11 7	19	("4169676"   "4184672"   "4327906"   "4374212"   "4381860"   "4451028"   "4589647"   "4596385"   "4627605"   "4635921"   "4678176"   "4750729"   "4887805"   "5090676"   "5092578"   "5150892"   "5181706"   "5181709"   "5181710").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/09 11:38
S11 8	54	271/95.ccls. AND ((suction vacuum pneumatic (negative ADJ3 pressure)) WITH cup)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/09 12:50
S11 9	38	271/95.ccls. AND ((suction vacuum pneumatic (negative ADJ3 pressure)) WITH sucker)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/09 12:50
S12 0	1	("2231339").URPN.	USPAT	OR	OFF	2006/11/09 15:17
S12 1	19	("1112609"   "1289051"   "2108702"   "2231339"   "3275317"   "3684276"   "3997153"   "5137268"   "5156387"   "6345818"   "6398208"   "6431623"   "6571709").PN. OR ("6739588"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/09 15:17
S12 2	1	("2231339").URPN.	USPAT	OR	OFF	2006/11/09 15:31
S12 3	1	("2004/0108650").URPN.	USPAT	OR	OFF	2006/11/09 15:32

## EAST Search History

S12 4	30	(US-20040108650-\$ or US-20030196563-\$ or US-20040113349-\$).did. or (US-6739588-\$ or US-2231339-\$ or US-4881934-\$ or US-5454312-\$ or US-5186107-\$ or US-4790244-\$ or US-4127265-\$ or US-4024814-\$ or US-5535997-\$ or US-4606537-\$ or US-4958824-\$ or US-4703925-\$ or US-3964953-\$ or US-4228993-\$ or US-6168148-\$ or US-4378734-\$ or US-5232213-\$ or US-5226640-\$ or US-5087025-\$ or US-4589649-\$ or US-5553841-\$ or US-4728092-\$ or US-4714242-\$ or US-3718328-\$ or US-5447300-\$).did. or (US-1715360-\$).did. or (JP-04041342-\$).did.	US-PGPUB; USPAT; USOCR; JPO	OR	OFF	2006/11/13 09:04
S12 5	1	S124 mm	USPAT	AND	OFF	2006/11/13 09:08
S12 6	1	S124 (inch OR "in.")	USPAT	AND	OFF	2006/11/13 09:09
S12 7	2	S124 stretch	USPAT	AND	OFF	2006/11/13 09:09
S12 8	1	("3,937,457").PN.	USPAT; USOCR	OR	OFF	2006/11/13 09:09
S12 9	19	("1112609"   "1289051"   "2108702"   "2231339"   "3275317"   "3684276"   "3997153"   "5137268"   "5156387"   "6345818"   "6398208"   "6431623"   "6571709").PN. OR ("6739588"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/13 09:16
S13 0	4	S129 mm	USPAT	AND	OFF	2006/11/13 09:20
S13 1	1768	(plane OR surface) suction (distance OR offset)	USPAT	WITH	ON	2006/11/13 09:21
S13 2	144	(plane OR surface) suction cup (distance OR offset)	USPAT	WITH	ON	2006/11/13 09:22
S13 3	3	(plane OR surface) suction cup (distance OR offset) mm	USPAT	WITH	ON	2006/11/13 09:25
S13 4	5	(plane OR surface) suction cup (distance OR offset) inch	USPAT	WITH	ON	2006/11/13 10:18
S13 5	1294787	S124 rotat\$5	USPAT	OR	OFF	2006/11/13 09:31
S13 6	14	S124 rotat\$5 print\$5	USPAT	AND	OFF	2006/11/13 09:31



## EAST Search History

S13 7	0	("62-215441").PN.	USPAT; USOCR	OR	OFF	2006/11/13 10:18
S13 8	1	("62215441").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/13 10:18
S13 9	131	271/276.ccls. AND (suction\$ vacuum pneumatic (negativ\$4 ADJ pressure)) AND plane	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/22 11:34
S14 0	0	S139 AND @pd>"20061106"	USPAT	OR	OFF	2006/12/22 11:36
S14 1	119	271/276,194,196,314,186.ccls. AND (suction\$ vacuum pneumatic (negativ\$4 ADJ pressure)) AND ((different offset distance) WITH (plane axis planes axes))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/22 11:36
S14 2	1	S141 AND @pd>"20061106"	USPAT	OR	OFF	2006/12/22 11:41
S14 3	282	271/196.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/12/22 11:41
S14 4	0	S143 AND @pd>"20061106"	USPAT	OR	OFF	2006/12/22 11:41
S14 5	103	("271"/\$.ccls. "101"/\$.ccls. "298"/\$.ccls.) AND (cups WITH four)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/22 11:41
S14 6	0	S145 AND @pd>"20061106"	USPAT	OR	OFF	2006/12/22 11:42

## EAST Search History

S14 7	749	271/94-96.ccls. AND (suction vacuum pneumatic (negative ADJ3 pressure))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/22 11:42
S14 8	0	S147 AND @pd>"20061106"	USPAT	OR	OFF	2006/12/22 11:42
S14 9	0	S113-S118 AND @pd>"20061106"	USPAT	OR	OFF	2006/12/22 11:43